



DEPARTMENT OF THE NAVY

COMMANDING OFFICER
TRARON EIGHT SIX
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PENSACOLA FLORIDA 32508-5503

TRARONEIGHTSIXINST 3140.5R
N3

12 JUL 2016

TRARON EIGHT SIX INSTRUCTION 3140.5R

From: Commanding Officer, Training Squadron EIGHT SIX

Subj: DESTRUCTIVE WEATHER AND HURRICANE ACTION BILL

Ref: (a) OPNAVINST 3140.24F
(b) NASPNCLAINST 3440.4B
(c) COMTRAWINGSIXINST 3140.2L

Encl: (1) Security Measures for Destructive Weather Conditions
other than Hurricanes
(2) Hurricane Condition Setting Checklist
(3) General Information for Hurricane Protection
(4) General Information Concerning and Precautions to be
taken during Electrical Storms
(5) General Information Concerning and Precautions to be
taken during Tornadoes and 2016 Hurricane Evacuation Fly-Off

1. Purpose

a. To establish precautionary measures to safeguard personnel and property during periods of destructive weather.

b. The changes made in this instruction was to combine enclosures (5) and (6). Enclosure (5) now includes the names of the personnel responsible for flying aircraft to a safe location before destructive weather arrives.

2. Cancellation. TRARONEIGHTSIXINST 3140.5Q

3. Background. References (a) through (c) promulgate information concerning destructive weather phenomena and establish conditions of readiness to be set in anticipation of such phenomena.

4. Destructive Weather Terminology

a. Thunderstorm. Winds of 25 knots or greater are possible. Thunderstorms are frequently accompanied by gusts of 35-40 knots. Infrequently, gusts may exceed 65 knots.

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b. Tornadoes and Waterspouts. Although conditions are generally unfavorable for the formation of tornadoes in the Pensacola area, conditions are frequently favorable for the formation of waterspouts. Wind velocities of 50 knots may be expected with wind velocities up to 200 knots possible.

c. Small Craft Warning. Wind velocities of 22 to 33 knots are expected. This term denotes the lower limits of destructive winds over coastal and inland water areas.

d. Gale. Wind velocities of 34 to 47 knots are expected.

e. Storm. Wind velocity of 48 knots or greater are expected.

f. Major Cyclonic Storms. Characterized by severe winds, torrential rains and sometimes tornadoes. Tropical cyclones are classified based on wind velocity as follows:

(1) Tropical Depression - Sustained surface winds of 33 knots or less.

(2) Tropical Storm - Sustained surface winds in the range of 34 to 63 knots.

(3) Hurricane - Maximum sustained surface winds of 64 knots or greater.

5. Time of expectation of arrival. These conditions apply to the weather phenomena listed in 4.d. through 4.f. above.

NOTE: Hurricanes often form in the Gulf of Mexico and threaten land within 48 hours.

a. Condition V. Threat of indicated destructive weather exists beyond 72 hours. This condition is set 1 June through 30 November.

b. Condition IV. Trend indicates a threat of destructive winds within 72 hours.

c. Condition III. Destructive winds are possible within 48 hours. Take preliminary precautions.

d. Condition II. Destructive winds are anticipated within 24 hours or in the case of thunderstorms or tornadoes, are reported or expected in the general area. Take precautions which will permit establishment of an appropriate state of readiness within one hour.

e. Condition I. Destructive winds are imminent or anticipated within 12 hours. Take immediate precautions to minimize damage.

6. Conditions of Readiness. The following sample conditions of readiness are derived from a combination of terms in paragraphs 4 and 5 above:

a. Hurricane/Tropical Storm Condition V.

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- b. Hurricane/Tropical Storm/Tropical Depression/Storm/Gale Condition IV.
- c. Hurricane/Tropical Storm/Tropical Depression/Storm/Gale Condition III.
- d. Hurricane/Tropical Storm/Tropical Depression/Storm/Gale/ Thunderstorm/Small Craft/Tornado Condition II.
- e. Hurricane/Tropical Storm/Tropical Depression/Storm/Gale/ Thunderstorm/Small Craft/Tornado Condition I.

7. Thunderstorm Conditions. Suffix letters A, B, and C are used to closely define the intensity of an expected thunderstorm, as follows:

- a. Thunderstorm Condition I: Phenomena described expected within 1 hour.

- (1) Thunderstorm Condition 1A - Thunderstorms are expected which have maximum gusts to 35 knots.

- (2) Thunderstorm Condition 1B - Thunderstorms are expected which have maximum gusts to 47 knots.

- (3) Thunderstorm Condition 1C - Thunderstorms are expected which have maximum gusts in excess of 47 knots.

- b. Thunderstorms Condition II: Phenomena expected within 2-6 hours.

8. Responsibilities. Major cyclonic storm conditions will be set by Commanding Officer, Naval Air Station, Pensacola (NASP). Small area storm conditions (thunderstorms, tornadoes) will be set by the CO, NASP. Destructive weather warnings will be issued by telephone/paging device to the Squadron Duty Office. Storm warnings, other than thunderstorms, will be followed up by message.

- a. Upon the setting or cancellation of any of the above listed destructive weather conditions, the Command Duty Officer/Squadron Duty Officer (CDO/SDO) shall immediately take any action necessary, then notify the following:

- (1) Commanding Officer (CO)

- (2) Executive Officer (XO)

- (3) Operations Officer

- (4) Contractor Duty Officers (T-45 452-4751) during duty hours. After duty hours recall numbers can be found in the CDO binder.

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(5) Hurricane Evacuation Coordination Officer (HECO)

(6) Assistant Hurricane Evacuation Coordination Officer (A-HECO)

b. Department Heads are responsible for security of spaces and equipment under their cognizance. They shall be familiar with procedures and requirements of references (b), (c), and with this instruction.

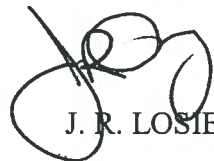
c. The Hurricane Evacuation Control Officer (HECO) shall submit reports per requirements of references (b) and (c) in advance of designated Hurricane Season. Further, they shall review and update pertinent instructions, notices, recalls, etc., as may be required to provide a comprehensive and effective plan should evacuation of aircraft or personnel due to destructive weather be required. The HECO will provide the CO, XO, and each Department Head with a hurricane evacuation (HUREVAC) folder containing copies of these documents highlighting areas that are applicable to the squadron in general and to their particular department as appropriate. They shall provide training to CDO/SDO watchstanders as needed.

d. The A-HECO will visit the refuge base, as coordinated by CTW-6 HECO prior to 15 May (annually), to make all necessary evacuation arrangements.

e. Enclosures (1) and (2) determine responsibilities for specific destructive weather conditions. Enclosures (3), (4) and (5) contain explanatory information along with list of fly off personnel.

9. Records Management. Records created as a result of this instruction, regardless of media and format, must be managed per Secretary of the Navy Manual 5210.1 of January 2012.

10. Review and Effective Date. Per OPNAVINST 5215.17A, the Administrative Officer will review this instruction annually on the anniversary of its effective date to ensure applicability, currency, and consistency with Federal, DoD, SECNAV, and Navy policy and statutory authority using OPNAV 5215/40 Review of Instructions. This instruction will automatically expire five years after effective date unless reissued or canceled prior to the Five-year anniversary date, or an extension has been granted.



J. R. LOSIEVSKY

Distribution:

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SECURITY MEASURES
FOR DESTRUCTIVE WEATHER CONDITIONS OTHER THAN HURRICANES

1. General

- a. The CDO shall alert all departments, including contractor duty offices, of conditions of readiness to set.
- b. During working hours, departments shall be responsible for security measures as outlined for the department by Department Head.
- c. During non-working hours/days, the CDO shall be responsible for the security of squadron spaces under Conditions V, IV, III, II, and I.
- d. All Students shall muster with the designated Scheduling Officer as per the emergency muster card. All Instructors shall muster with Department Heads.

2. Tropical Depressions and Tropical Storm

- a. Tropical depression and tropical storm conditions are to be considered hurricane conditions and the procedures set forth in enclosure (2) shall be followed.

3. Storm

a. Condition II

(1) All departments alerted and take following preliminary measures:

- (a) Alert all hands.
- (b) Review procedures to be followed if Condition I is set.
- (c) Review buildings and adjacent areas for loose gear.
- (d) Personnel shall carry out routine work assignments, and standby to effect further security measures as may be required.

b. Condition I

(1) General

- (a) Ensure that instructions for the setting of Condition II have been completed.
- (b) Complete security measures which enable the squadron to be fully secured on short notice.

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(c) Liberty shall be restricted as necessary to permit securing all departments.

(2) Operations Department

(a) Recall aircraft at discretion of Commanding Officer.

(b) Local, test, and cross country flights may be cleared from Sherman Field at the discretion of the Commanding Officer.

4. Gale

a. Condition II

(1) All departments alerted and take preliminary precautions.

(2) Review, with all hands concerned, the procedures to be followed when Condition I is set.

b. Condition I

(1) General

(a) Complete security measures which will enable the squadron to be fully secured on short notice.

(b) Liberty shall be restricted as necessary to permit securing of all departments.

(2) Operations Department - Take action as set forth in Operations Department - Storm Condition I.

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HURRICANE CONDITION SETTING CHECKLIST

1. General. Hurricane Conditions will be established by CO, NASP and effect entire Naval Air Station. Training Squadron EIGHT SIX, as a tenant activity, will set the appropriate Hurricane Condition when notified (normally by phone or paging device from NAS Air Operations followed by immediate message). Upon setting or securing readiness Condition V through I, the CDO shall notify, at a minimum, the personnel listed in paragraph 8(a) of the this instruction (a more comprehensive notification listing can be found in TRARONEIGHTSIXNOTE 3140). All personnel shall muster in response to mass text with designated Wing Leader or Department Head.

2. Action. There are five Hurricane Conditions as established by references (b) and (c). Actions required for each are described below.

a. Hurricane Condition V: The seasonal Hurricane Condition that will be set from 1 June through 30 November.

(1) Operations shall publish a HUREVAC flight crew list and revise it as necessary throughout the hurricane season. Enclosure (6) is a perspective list of fly-away crews.

(2) All Departments shall report to the Commanding Officer, via the HECO, the setting of Condition V within their departments.

(3) The squadron HECO shall, upon receipt of all department reports that Condition V is set, notify NAS Disaster Preparedness Officer per reference (b). They shall also provide support requirement information, squadron HECO identity and squadron Emergency Operations Center (EOC) phone numbers to the Commander, Training Wing SIX (CTW-6) HECO per reference (c).

b. Hurricane Condition IV: Set 72 hours prior to forecast arrival of winds in excess of 50 knots.

(1) CDO/SDO

(a) With assistance of the HECO, report to NAS Air Operations Duty Officer (452-2431) and CTW-6 HECO (452-2305) that Condition IV is set and provide assistance.

(2) Operations

(a) Provide to Administrative Department the names of all aircrew who may participate in evacuation evolution.

(b) Dispatch A-HECO to refuge base if appropriate.

(4) HECO

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- (a) Assist CDO/SDO in making condition reports.
 - (b) Assemble HUREVAC packets and generic HUREVAC flight plans.
 - (c) Provide the name of senior Naval Aviator/NFO assigned to HUREVAC detachment to CTW-6 HECO and any other assistance necessary
 - (d) Begin notifying HUREVAC crews of possible HUREVAC.
- (5) All departments review requirements of further hurricane condition upgrades and report to CDO that Condition IV is set.
- (6) Administration Office
- (a) Administrative Department shall assist in preparation of orders for flyaway crews.
 - (b) Contact all personnel living aboard NASP to ensure they are aware of evacuation requirements in Section II, paragraph 3, of this instruction.
- c. Hurricane Condition III: Set 48 hours prior to forecast arrival of winds in excess of 50 knots.
- (1) Ensure all requirements from Hurricane Condition IV and V have been set.
 - (2) CDO/SDO
 - (a) Notify CO, XO, all departments, contractors, and HECO/A-HECO.
 - (b) Secure from local syllabus flights. Simulator/academic training may continue.
 - (c) Curtail leave/liberty at Commanding Officer's discretion.
 - (d) Recall evacuation aircrew if not already in spaces or preparing for HUREVAC.
 - (e) Notify NAS Air Operations Duty Officer (452-2431) and CTW-6 HECO (452-2305) that Condition III is set.
 - (f) If HUREVAC order is received from CTW-6, advise CO, XO, contractors, and Operations. With the assistance of the Squadron HECO, monitor/document evacuation proceedings and provide assistance to the CTW-6 HECO (452-2305).
 - (3) Operations

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(a) Update Administrative Department on all aircrew who will participate in evacuation evolution.

(b) Dispatch A-HECO to refuge base with message tape from CTW-6 HECO.

(4) Aircrew members shall prepare their own orders for evacuation.

(5) HECO shall continue all duties listed in Condition IV.

(6) All Departments review requirements of further hurricane condition upgrades and report to CDO that Condition III is set.

d. Hurricane Condition II: Set 24 hours prior to forecast arrival of winds in excess of 50 knots. General evacuation is considered necessary.

(1) Ensure all requirements from Hurricane Condition III, IV, and V have been set.

(2) CDO/SDO

(a) Notify CO, XO, all departments, contractors, and HECO/Assistant HECO (A-HECO).

(b) Terminate all syllabus flight training and cross country fly-aways. Simulator/academic training may continue at discretion of Commanding Officer.

(c) When all departments have reported that Condition II is set, notify NASP Emergency Operations Center (EOC) (452-4481) and CTW-6 HECO (452-2305). Advise of intentions regarding evacuation of spaces and numbers of personnel to remain on board.

(3) Operations

(a) Commence HUREVAC flyaway of aircraft if not already accomplished.

(b) Secure from academic/simulator training if appropriate.

(c) Advise Commanding Officer regarding aircraft location/status and anticipated effect the hurricane delay will have upon training.

(4) All Departments

(a) Complete protective measures in spaces.

(b) Advise personnel to evacuate if directed by Commanding Officer. Personnel are to seek appropriate shelter within 250 miles and provide their department head and CDO with a

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recall number. If station evacuation is directed by CO, NASP, all personnel will comply with the guidelines of the evacuation plan described in reference (b).

(5) HECO

(a) Keep CTW-6 HECO informed of squadron situation.

(b) Assist CDO/SDO as necessary.

(6) If VT-86 is senior Naval Aviator/NFO of HUREVAC upon arrival at refuge base, they will be designated CTW-6 DET OIC, and shall, with assistance from CTW-6 command(s) A-HECO(s):

(a) Make liaison with refuge base point of contact or Operations Duty Officer.

(b) Submit via telephone, followed by immediate precedence message, reports to CTW-6 for all evacuated activities at refuge base (see COMTRAWINGSIXINST 3140.2L for all responsibilities and message formats).

e. Hurricane/Condition I: Set 12 hours prior to forecast arrival of winds in excess of 50 knots.

(1) CDO/SDO

(a) Secure from all flight operations, including HUREVAC.

(b) Secure all personnel to their homes/shelters when directed by Commanding Officer. Necessary duty personnel will remain on board unless directed to proceed to a designated shelter or to evacuate station by CO, NASP order.

(c) Report setting of Condition I to CTW-6 HECO and advise of numbers of personnel remaining on board (relocated to Disaster Preparedness Center/EOC, 452-4481).

(2) All departments secure remaining personnel to their homes. Department Heads report to CDO when spaces and personnel secured.

(3) All departments

(a) Complete protective measures in spaces.

(b) Advise personnel to evacuate if directed by Commanding Officer. Personnel are to seek appropriate shelter within 250 miles and provide their department head and CDO with a recall number. If station evacuation is directed by CO, NASP, all personnel shall comply with the guidelines of evacuation plan described in reference (b).

(4) HECO shall continue all duties listed in Condition II.

f. Recovery phase from Hurricane. After storm passage (and when cleared from shelters, if applicable).

(1) CDO

(a) Advise EOC (2-4481) immediately of emergency situations that may exist in spaces (fire, broken fire mains, arcing electrical circuits, etc.).

(b) Prepare initial OPREP-3 report information, if applicable.

(c) Report Hurricane Condition V set to CTW-6 HECO (452-2305).

(d) When aircraft have recovered from refuge/other base and with assistance of HECO, report to the CTW-6 HECO (452-2305).

(2) Operations. When directed by CTW-6 and Commanding Officer, initiate recovery of dispersed aircraft.

(3) All departments inspect spaces and provide damage reports to the Executive Officer.

(4) HECO

(a) Assist CDO in making after-action reports as necessary to CTW-6 HECO (452-2305).

(b) Make written reports for Hurricane Condition V as required by reference (b), to the EOC, bldg. 628 (452-4481).

3. Evacuation. Shelters on board NASP will not be available if an evacuation order is directed by CO, NASP. Evacuation of the station is mandatory for all personnel. The CDO shall, upon receipt of an evacuation order, advise the CO, XO, and all department heads and secure from spaces, seeking appropriate shelter off-station. Department Heads shall advise any of their personnel who reside on-base of the evacuation order and direct their departure from the station. Guidelines for evacuation provided in reference (b) shall be followed. CDO shall, before securing from spaces, ensure Hurricane Condition I reports have been made to EOC (452-4481) and provide his/her recall.

4. HUREVAC Instructions Card. All VT-86 personnel will comply with the procedures of the card in the event the Hurricane Action Bill is initiated.

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GENERAL INFORMATION
FOR HURRICANE PROTECTION

1. The following precautions for securing buildings will be included in all Department Hurricane Bills, to be implemented with the setting of Condition II. It will be noted that these are basic minimum requirements and department heads will use their own discretion as to special considerations which must be taken within their departments.

a. Initiate action to establish full state of protection on six hours notice.

b. Ensure that loose paperwork, files, office equipment, and furnishings are protected and that all records and equipment are away from doors and windows to protect against damage in the event windows are broken. Cover with tarpaulins or sheet plastic, if possible. Remove plugs of portable electric appliances from wall sockets.

c. Check to ensure that all miscellaneous items such as doormats, trash cans, porch furniture, and awnings are stored inside buildings. Ensure that the area surrounding buildings is clear of all debris and loose material. Remove loose screens and store in buildings.

2. Secure all rolling stock. Remove all non-essential government automotive and construction equipment to parking lot near building 1659, and turn keys into the dispatcher at Building 1771 (both buildings located in the vicinity of Andrew Jackson Court). Private vehicles should be removed from low lying areas.

3. The following are questions that supervisors should consider prior to the advent of tropical storms or hurricanes:

-Do we have enough hurricane preparation material identified to protect our assets?

-How long will it take to backup my computer harddrive?

-Do I have a waterproof place to store these programs and other irreplaceable items?
(Waterproof plastic bags are available at RMS.)

-Who are my hurricane threat preparedness key people? Are enough available to account for travel vacation plans?

-Is my telephone notification list extensive enough to ensure the word gets out to all my people?

-Who are my essential people that must stay behind? Do they know? Have they prepared their home and family?

-When did I last review hurricane preparation and evacuation plans for my area?

Enclosure (3)

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-Have my employees been asked where they plan to go if the evacuation order is given?
How am I going to contact my people should the need arise and/or to give the word to come back to work?

-Do I routinely inspect my areas for potential missile hazards?

-Personal readiness: <http://www.noaa.gov>

GENERAL INFORMATION
CONCERNING AND PRECAUTIONS TO BE TAKEN DURING ELECTRICAL STORMS

1. General. Lightning kills approximately 400 people annually in the United States.
2. Precautions. Department heads shall ensure that the following precautions are taken during electrical storms:
 - a. Allow no personnel to take shelter under aircraft on the line or in open spaces. Shelter in cockpits is suitable and safe.
 - b. Instruct personnel to return to hangar when possible.
 - c. Instruct personnel not to take shelter in small shacks in open spaces.

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GENERAL INFORMATION
CONCERNING AND PRECAUTIONS TO BE TAKEN DURING TORNADOES

1. Information

a. Where tornadoes can occur. Any place in the United States at any time of the year. They happen most frequently in the Midwestern, southern, and central states.

b. How often they occur. The records show that they average from about 12 per year in the parts of the Midwest, to less than one tornado per year in the northwestern states.

c. How to recognize a tornado. Usually observed as a funnel-shaped cloud, spinning rapidly, and extending toward the earth from the base of a thundercloud. When close by, it sounds like the roar of hundreds of airplanes.

d. Tornado weather. Hot sticky days without southerly winds and threatening ominous skies. However, many such days can occur without tornadoes.

e. Clouds. Familiar thunderstorm clouds are present. An hour or two before a tornado, topsy-turvy clouds appear, sometimes building down instead of up. The clouds often have a greenish-black color.

f. Precipitation. Rain, frequently hail, preceding the tornado, with a heavy downpour after it has passed.

g. Time of year. While we may experience tornadoes anytime there is convective activity, Northwest Florida is typically most susceptible from late February to late April and again from mid-October to mid-December.

h. Length of path. Usually 10 to 40 miles (the average length is 16 miles), but they may move forward for 300 miles.

i. Width of path. The average width is about 400 yards, but they have cut swaths over a mile wide.

j. Speed of travel. 25 to 40 miles per hour average, but they have varied from stationary to 68 miles per hour.

k. Wind speed. Estimated as high as 500 miles per hour within the tornado.

l. Causes of destruction. Violent winds uproot and destroy buildings, which create a serious hazard from objects blown through the air. Difference in air pressure which can lift automobiles and cause buildings to collapse.

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2. Precautions. There is no universal protection against tornadoes except underground evacuation; however, KNOWING WHAT TO DO WHEN A TORNADO OCCURS MAY MEAN THE DIFFERENCE BETWEEN LIFE AND DEATH.

a. General

(1) Seek inside shelter in a tornado cellar or strongly reinforced building and stay away from windows. Keep out of hangar bays, auditoriums, gymnasiums, or buildings of similar type with large, poorly-supported roofs.

(2) If time permits, electricity and fuel should be shut off.

(3) Doors and windows on the sides away from the tornado may be opened to reduce damage to the buildings.

(4) Keep tuned to your radio or television station for the latest tornado advisory information.

(5) Report all tornado sightings to the EOC, telephone 452-4481, so that information may be properly disseminated.

2016 HURRICANE EVACUATION FLY-OFF

The list below is the aircrew assigned to fly off the VT-86 aircraft in the event of a hurricane for the 2016 hurricane season. The list is arranged in order of rank; all other NATOPS qualified instructors will be considered alternates.

CDR Losievsky
LCDR Martin
LCDR Britt
LCDR Hooke
LCDR Hood
Major Mendoza
LT Warshaw
LT Charnas
Captain Reilly
LT Kash
LT Becker
LT Kochanski
LT Trub
LT Lang